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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/722,575	11/28/2003	Martin Broberg	TPP 31708	4961
7590 09/15/2006 STEVENS, DAVIS, MILLER & MOSHER, L.L.P.			EXAMINER	
			GOFF II, JOHN L	
Suite 850 1615 L Street, N.W.		ART UNIT	PAPER NUMBER	
Washington, DC 20036			1733	
			DATE MAILED: 09/15/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)
	10/722,575	BROBERG ET AL.
Office Action Summary	Examiner	Art Unit
	John L. Goff	1733
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timwill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on <u>06 J</u>	s action is non-final. nce except for formal matters, pro	
Disposition of Claims		
4) ☐ Claim(s) 1-12 and 14-58 is/are pending in the 4a) Of the above claim(s) 3,5-9,18-23 and 56-5 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1,2,4,10-12,14-17 and 24-55 is/are re 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or Application Papers	58 is/are withdrawn from consider	ation.
9) The specification is objected to by the Examine	er.	
10) ☐ The drawing(s) filed on is/are: a) ☐ accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Expression of the correct of the corre	drawing(s) be held in abeyance. See tion is required if the drawing(s) is obj	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
a) ☐ All b) ☐ Some * c) ☑ None of: 1. ☑ Certified copies of the priority document 2. ☐ Certified copies of the priority document 3. ☐ Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	es have been received. Es have been received in Application ity documents have been received in PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4)	
Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal P 6) Other:	

DETAILED ACTION

1. This action is in response to the amendment filed on 7/6/06.

2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Allowable Subject Matter

3. The indicated allowability of claims 13-17, 24-29, 48, and 49 is withdrawn in view of the newly discovered reference(s) to Mason (U.S. Patent 1,995,264), Berry et al. (U.S. Patent 4,406,455), and Karam (U.S. Patent 6,485,823). Rejections based on the newly cited reference(s) follow.

Election/Restrictions

4. Applicant's election of Group I, Species I-B and II-A, claims 1, 2, 4, 10-17, and 24-55 in the reply filed on 7/6/06 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)). It is noted rejoinder of the non-elected species claims will be considered upon the indication of allowable subject matter.

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Claim Objections

5. Claims 14, 24-29, and 44 are objected to because of the following informalities: In claim 14, line 2 after "layer has" insert - - an - -. In claim 24, line 2 delete "sheet" and insert therein - - layer - - to provide proper antecedent basis for the balance layer. In claim 44, line 2 delete "is" and insert therein - - are - -. Appropriate correction is required.

Claim Rejections - 35 USC § 112

- 6. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 7. Claims 31, 32, and 44 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The claims have been amended to require joining by "at least one of melt-glue, heat and pressure". However, the specification does not describe the joining of any of the layers by applying only heat (without melt-glue or pressure) or applying only melt-glue (without heat or pressure).

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Claim Rejections - 35 USC § 103

- 8. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 9. Claims 1, 2, 4, 10-12, 14-17, 30-32, and 37-55 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sjoberg et al. (WO 02/47906) in view of any one of Mason (U.S. Patent 1,995,264), Berry et al. (U.S. Patent 4,406,455), or Karam (U.S. Patent 6,485,823) and Moebus (WO 01/21366 and see also English equivalent U.S. Patent 6,761,961).

Sjoberg et al. disclose a method of manufacturing a decorative laminate used for floor coverings comprising providing a carrying core layer, e.g. fiber board, providing a dampening (e.g. acoustic dampening) foil layer of a thermoplastic elastomer on the upper side of the core layer, providing an upper decorative and abrasion resistant thermosetting laminate layer on the foil layer, and then pressing to form the decorative laminate (Page 1, lines 17-26 and Page 2, lines 12-14). Sjoberg et al. are silent as to joining a balance layer on the lower side of the core layer. Mason discloses a method of manufacturing a decorative laminate used for floor coverings comprising adhering a core layer to an upper layer and an identical/symmetrical lower layer wherein the upper layer includes a decorative and abrasion resistant layer and the lower layer is added to balance the upper layer and prevent the decorative laminate from warping while

also providing the capability of reversing the decorative laminate in the event the upper layer is damaged or it is desired to expose the decorative pattern provided on the lower layer (Figures 1-3 and Page 1, lines 1-6, 29-32, and 38-48 and Page 2, lines 40-46 and 14-28). Berry et al. disclose a method of manufacturing a decorative laminate used for floor coverings comprising adhering a core layer to upper layers and identical/symmetrical lower layers wherein the upper layers include decorative and abrasion resistant layers and the lower layers are added to balance the upper layers and prevent the decorative laminate from warping (Figure 3 and Column 4, lines 51-68 and Column 5, lines 1-2). Karam discloses a method of manufacturing a decorative laminate used for floor coverings comprising adhering a core layer to upper layers and identical/symmetrical lower layers wherein the upper layers include decorative and abrasion resistant layers and the lower layers act to balance the upper layers (Figure 1 and Column 4, lines 61-64 and Column 5, lines 32-35). It would have been obvious to one of ordinary skill in the art at the time the invention was made to join on the lower side of the core layer taught by Sjoberg et al. a balance layer that is identical/symmetrical with the layers on the upper side of the core layer, i.e. a balance layer comprising the dampening foil layer of thermoplastic elastomer and the decorative and abrasion resistant thermosetting laminate layer, as shown by any one of Mason, Berry et al., or Karam to prevent the decorative laminate from warping and provide the capability of reversing the decorative laminate in the event the upper layers of the decorative laminate are damaged or it is desired to expose the decorative pattern provided on the lower layers.

Regarding claim 1, Sjoberg et al. do not specifically teach the decorative laminate is cut into panels and provided with edges intended for joining, it being noted Sjoberg et al. teach the

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decorative laminate is used for floor coverings (Page 1, lines 6-8). Moebus discloses a method of manufacturing a decorative laminate used for floor coverings comprising providing a carrying core layer, providing an upper decorative and abrasion resistant laminate layer on the upper side of the core layer, pressing to form the decorative laminate, and then cutting the decorative laminate into panels and milling edges on the cut panels intended for joining together as a floor covering (Column 1, lines 15-47 of U.S. Patent 6,761,961). It would have been obvious to one of ordinary skill in the art at the time the invention was made to include in Sjoberg et al. as modified by any one of Mason, Berry et al., or Karam the well known and conventional finishing steps for forming decorative laminates into floor coverings of cutting the decorative laminate into panels and milling edges on the cut panels intended for joining as shown for example by Moebus wherein only the expected results would be achieved.

Regarding claims 2, 10-12, 37, 38, 46, 47, 50, 54, and 55, Sjoberg et al. further teach the decorative and abrasion resistant laminate is formed by providing one or more underlay papers impregnated with phenol-formaldehyde resin, providing on the underlay papers one or more décor papers impregnated with melamine-formaldehyde resin, providing on the décor papers one or more overlay sheets impregnated with melamine-formaldehyde resin and hard particles such as silicon oxide, aluminum oxide, silicon carbide, etc. having an average size of 5 - 60 μm, and laminating the papers together under increased heat and pressure to form the upper decorative and abrasion resistant laminate having a thickness of 0.3 - 0.9 mm and a density of 1250 - 1500 kg/m³ (Page 1, lines 27-28 and Page 2, lines1-11). Regarding claims 39-42 and 51-53, Sjoberg et al. teach the dampening foil is a thermoplastic elastomer having an elasticity compression coefficient of 0.8 - 2.0 Mpa, a thickness of 0.1 - 0.5 mm, and a density of 180 - 330 kg/m³ (Page

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2, lines 15-22). Regarding claims 17, 30-32, and 43-45, Sjoberg et al. teach the upper decorative and abrasion resistant laminate, dampening foil, and carrying core layer are joined by means of melt-glue, heat, and pressure (Page 2, lines 23-27).

Regarding claims 14-16, 48, and 49, as noted above Sjoberg et al. teach the dampening foil is a thermoplastic elastomer having an elasticity compression coefficient of 0.8 - 2.0 Mpa, a thickness of 0.1 - 0.5 mm, and a density of 180 - 330 kg/m³, and Sjoberg et al. teach the decorative and abrasion resistant laminate has a thickness of 0.3 - 0.9 mm and a density of 1250 - 1500 kg/m³. Absent any unexpected results, it would have been obvious to one of ordinary skill in the art at the time the invention was made to experimentally determine the thickness, density, and elasticity compression coefficient of the balance layer as taught by Sjoberg et al. as modified by any one of Mason, Berry et al., or Karam within the ranges disclosed by Sjoberg et al. for the dampening foil and decorative and abrasion resistant laminate as a function of providing a balance layer that prevents the decorative laminate from warping as doing so would have required nothing more than ordinary skill and routine experimentation.

10. Claims 24-26, 29, and 33-36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sjoberg et al., any one of Mason, Berry et al., or Karam, and Moebus as applied to claims 1, 2, 4, 10-12, 14-17, 30-32, and 37-55 above, and further in view of Leukel et al. (U.S. Patent 4,770,916).

Sjoberg et al., any one of Mason, Berry et al., or Karam, and Moebus as applied above teach all of the limitations in claims 24-26, 29, and 33-36 except for a teaching of including a conductive material such as carbon black or carbon fiber in the glue and elastomer, i.e. balance, layers. Leukel et al. disclose a floor covering including rubber and glue layers wherein the layers

include a conductive material such as carbon black or carbon fiber (conductivity greater than 500 $k\Omega$ cm) to impart static dissipating properties to the floor covering (Column 3, lines 5-9 and 36-49 and Column 4, lines 59-60). It would have been obvious to one of ordinary skill in the art at the time the invention was made to include in the glue and elastomer layers of Sjoberg et al. as modified by any one of Mason, Berry et al., or Karam, and Moebus a conductive material such as carbon black or carbon fiber to impart static dissipating properties to the decorative laminate floor covering as shown by Leukel et al.

Claims 24 and 27-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sjoberg et al., any one of Mason, Berry et al., or Karam, and Moebus as applied to claims 1, 2, 4, 10-12, 14-17, 30-32, and 37-55 above, and further in view of Nowell et al. (U.S. Patent 4,885,659).

Sjoberg et al., any one of Mason, Berry et al., or Karam, and Moebus as applied above teach all of the limitations in claims 24 and 27-29 except for a teaching of including a conductive material such as a vacuum metallized aluminum layer in the thermoplastic, i.e. balance, layer. Nowell et al. disclose a floor covering including a thermoplastic layer wherein the thermoplastic layer includes a conductive material such as a vacuum metallized aluminum layer (conductivity greater than 500 k Ω cm) to impart static dissipating properties to the floor covering (Column 2, lines 3-18 and Column 4, lines 18-27). It would have been obvious to one of ordinary skill in the art at the time the invention was made to include in the thermoplastic layers of Sjoberg et al. as modified by any one of Mason, Berry et al., or Karam, and Moebus a conductive material such as a vacuum metallized aluminum layer to impart static dissipating properties to the decorative laminate floor covering as shown by Nowell et al.

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Double Patenting

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12. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPO 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

- Claims 1, 2, 4, 10-12, 14-17, 30-32, and 37-55 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-11 and 13-16 of U.S. Patent No. 6,893,713 in view of any one of Mason, Berry et al., or Karam, and Moebus. Although the conflicting claims are not identical, they are not patentably distinct from each other because claims 1-11 and 13-16 of U.S. Patent No. 6,893,713 disclose the invention substantially as claimed except for teaching including a balance layer comprising a thermoplastic elastomer on the lower side of the core layer and cutting the decorative laminate into panels and providing the panels with edges intended for joining which would have been obvious as discussed above.
- 14. Claims 24-26, 29, and 33-36 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-11 and 13-16 of U.S. Patent No. 6,893,713, any one of Mason, Berry et al., or Karam, and Moebus as applied to claims 1, 2, 4, 10-12, 14-17,

30-32, and 37-55 above, and further in view of Leukel et al. Although the conflicting claims are not identical, they are not patentably distinct from each other because claims 1-11 and 13-16 of U.S. Patent No. 6,893,713, any one of Mason, Berry et al., or Karam, and Moebus disclose the invention substantially as claimed except for a teaching of including a conductive material in the glue and elastomer layer which would have been obvious as discussed above.

- 15. Claims 24 and 27-29 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-11 and 13-16 of U.S. Patent No. 6,893,713, any one of Mason, Berry et al., or Karam, and Moebus as applied to claims 1, 2, 4, 10-12, 14-17, 30-32, and 37-55 above, and further in view of Nowell et al. Although the conflicting claims are not identical, they are not patentably distinct from each other because claims 1-11 and 13-16 of U.S. Patent No. 6,893,713, any one of Mason, Berry et al., or Karam, and Moebus disclose the invention substantially as claimed except for a teaching of including a conductive material in the thermoplastic layer which would have been obvious as discussed above.
- 16. Claims 1, 2, 4, 10-12, 14-17, 30-32, and 37-55 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1, 2, and 5-22 of copending Application No. 11/129,497 in view of any one of Mason, Berry et al., or Karam, and Moebus. Although the conflicting claims are not identical, they are not patentably distinct from each other because claims 1, 2, and 5-22 of copending Application No. 11/129,497 disclose the invention substantially as claimed except for teaching including a balance layer comprising a thermoplastic elastomer on the lower side of the core layer and cutting the decorative laminate into panels and providing the panels with edges intended for joining which would have been obvious as discussed above.

This is a <u>provisional</u> obviousness-type double patenting rejection.

17. Claims 24-26, 29, and 33-36 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1, 2, and 5-22 of copending Application No. 11/129,497, any one of Mason, Berry et al., or Karam, and Moebus as applied to claims 1, 2, 4, 10-12, 14-17, 30-32, and 37-55 above, and further in view of Leukel et al. Although the conflicting claims are not identical, they are not patentably distinct from each other because claims 1, 2, and 5-22 of copending Application No. 11/129,497, any one of Mason, Berry et al., or Karam, and Moebus disclose the invention substantially as claimed except for a teaching of including a conductive material in the glue and elastomer layer which would have been obvious as discussed above.

This is a <u>provisional</u> obviousness-type double patenting rejection.

18. Claims 24 and 27-29 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1, 2, and 5-22 of copending Application No. 11/129,497, any one of Mason, Berry et al., or Karam, and Moebus as applied to claims 1, 2, 4, 10-12, 14-17, 30-32, and 37-55 above, and further in view of Nowell et al. Although the conflicting claims are not identical, they are not patentably distinct from each other because claims 1, 2, and 5-22 of copending Application No. 11/129,497, any one of Mason, Berry et al., or Karam, and Moebus disclose the invention substantially as claimed except for a teaching of including a conductive material in the thermoplastic layer which would have been obvious as discussed above.

This is a <u>provisional</u> obviousness-type double patenting rejection.

Conclusion

19. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **John L. Goff** whose telephone number is (571) 272-1216. The examiner can normally be reached on M-F (7:15 AM - 3:45 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Crispino can be reached on (571) 272-1226. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

John L. Goff

JEFF H. AFTERGUT PRIMARY EXAMINER GROUP 1300